

Serial No. 10/603,487

Amendment in Resp. to Off. Action of Dec. 15, 2005

UTILITY PATENT

B&amp;D No. JK01493

This listing of claims will replace all prior versions, and listings, of claims in the application:

**Listing of Claims:**

1. (Withdrawn) A miter saw having a scale magnifier for measuring the bevel tilt of a tiltable mounted power tool, comprising:
  - a stationary portion having a front and a back;
  - a tiltable portion upon which is mounted a power tool, the tiltable portion being mounted on or proximate to the stationary portion; and
  - a measurement section for providing a measurement corresponding to a tilt of the tiltable portion with respect to an axis in which the measurement of the tilt is scalable with respect to an amount of the tilt.
2. (Withdrawn) The miter saw having a scale magnifier of Claim 1, the measurement section including a rotary mechanism.
3. (Withdrawn) The miter saw having a scale magnifier of Claim 2, the rotary mechanism including a gear.
4. (Withdrawn) The miter saw having a scale magnifier of Claim 2, the rotary mechanism including a pulley.
5. (Withdrawn) The miter saw having a scale magnifier of Claim 1, the measurement section including a first gear determined by a tilt of the power tool and a second gear driven by

Serial No. 10/603,487

Amendment in Resp. to Off. Action of Dec. 15, 2005

UTILITY PATENT

B&amp;D No. JK01493

the first gear on a long shaft that extends from the back of the stationary portion to the front of the stationary portion.

6. (Withdrawn) The miter saw having a scale magnifier of Claim 5, the measurement section further including a third gear at the end of the long shaft proximate the front of the stationary portion and a fourth gear on a bevel scale axis shaft driven by the third gear.

7. (Withdrawn) The miter saw having a scale magnifier of Claim 6, the fourth gear fixedly attached to an indicator.

8. (Withdrawn) The miter saw having a scale magnifier of Claim 7, the indicator including a cylinder having markings and rotating in unison with the fourth gear.

9. (Withdrawn) The miter saw having a scale magnifier of Claim 8, further comprising a handle having an arm proximate the fourth gear.

10. (Withdrawn) The miter saw having a scale magnifier of Claim 9, the arm of the handle acting to prevent motion of the fourth gear and lock the tilt of the tiltable portion.

11. (Withdrawn) The miter saw having a scale magnifier of Claim 6, further comprising a handle having an arm proximate the third gear.

12. (Withdrawn) The miter saw having a scale magnifier of Claim 11, the arm of the handle acting to prevent motion of the third gear and lock the tilt of the tiltable portion.

Serial No. 10/603,487

Amendment in Resp. to Off. Action of Dec. 15, 2005

UTILITY PATENT

B&amp;D No. JK01493

13. (Withdrawn) A miter saw having a scale magnifier in which a saw blade is mounted on a rotary support and is tilttable with respect to a miter base, comprising:

means for translating rotary motion of the rotary support from a far end of the miter base to a near side of the miter base with respect to an operator of the miter saw; and

means for scaling the rotary motion of the rotary support into a measurement readable by the operator.

14. (Withdrawn) The miter saw having a scale magnifier of Claim 13, further comprising means for locking a bevel of the rotary support, the means for locking being disposed on the near side of the miter base with respect to the operator.

15. (Withdrawn) The miter saw having a scale magnifier of Claim 13, the means for scaling being disposed at the far end of the miter base with respect to the operator.

16. (Withdrawn) The miter saw having a scale magnifier of Claim 13, the means for scaling being disposed at the near side of the miter base with respect to the operator.

17. (Withdrawn) The miter saw having a scale magnifier of Claim 13, the means for scaling being disposed both at the near side and far end of the miter base with respect to the operator.

18. (Withdrawn) The miter saw having a scale magnifier of Claim 13, a ratio of scaling by the means for scaling the rotary motion of the rotary support into the measurement readable by the operator not being in a 1:1 ratio.

Serial No. 10/603,487

Amendment in Resp. to Off. Action of Dec. 15, 2005

UTILITY PATENT

B&amp;D No. JK01493

19. (Withdrawn) The miter saw having a scale magnifier of Claim 13, further comprising means for displaying the measurement at the near side of the miter base with respect to the operator.

20. (Withdrawn) The miter saw having a scale magnifier of Claim 19, the means for displaying being mechanical.

21. (Withdrawn) A miter saw, comprising:  
a rotary support for a rotary saw blade;  
a miter base having a front and a back upon which the rotary support is rotatably mounted, the miter base including a gear and shaft mechanism for translating the tilt motion of the rotary support at the back of the miter base to the scale magnifier at the front of the miter base.

22. (Withdrawn) The miter saw of Claim 21, the scale magnifier having an angular movement with respect to an angular movement of the bevel housing in a 1:1 ratio.

22. (Withdrawn) The miter saw of Claim 21, the scale magnifier having an angular movement with respect to an angular movement of the bevel housing less than a 1:1 ratio.

23. (Withdrawn) The miter saw of Claim 21, the scale magnifier having an angular movement with respect to an angular movement of the bevel housing less than a 1:1 ratio.

24. (Withdrawn) The miter saw of Claim 21, the scale magnifier having an angular movement with respect to an angular movement of the bevel housing greater than a 1:1 ratio.

Serial No. 10/603,487

Amendment in Resp. to Off. Action of Dec. 15, 2005

UTILITY PATENT

B&amp;D No. JK01493

25. (Withdrawn) The miter saw of Claim 21, the miter base further having a handle operatively coupled to and proximate the scale magnifier such that the handle operatively locks the tilt of the bevel housing and unlocks it to permit rotation of the bevel housing.

26. (Withdrawn) A front bevel indicator for a miter saw having a moveable saw and a miter base, comprising:

a moveable element coupled to a first shaft, the moveable element being disposed at a front of the miter base, the moveable element having indicia for measuring a bevel of a moveable saw blade.

27. (Withdrawn) The front bevel indicator of Claim 26, further comprising a locking mechanism at the front of the miter base for locking the bevel of the rear bevel housing.

28. (Withdrawn) The front bevel indicator of Claim 26, the moveable element being a rotary cylinder.

29. (Withdrawn) The front bevel indicator of Claim 26, the moveable element being a bar that experiences linear translation.

30. (Withdrawn) The front bevel indicator of Claim 26, wherein a translation assembly translates a bevel from a rear bevel housing supporting the moveable saw into a rotational movement of the first shaft at the front of the miter base, the bevel of the moveable saw capable of being locked into place.

Serial No. 10/603,487

Amendment in Resp. to Off. Action of Dec. 15, 2005

UTILITY PATENT

B&amp;D No. JK01493

31. (Withdrawn) The front bevel indicator of Claim 26, the indicia including numerals.
32. (Withdrawn) The front bevel indicator of Claim 28, further including a pointer.
33. (Withdrawn) The front bevel indicator of Claim 32, the pointer being stationary and supported by the miter base.
34. (Withdrawn) the front bevel indicator of Claim 32, the pointer being on the rotary cylinder.
35. (Currently Amended) A ~~front bevel lock, for a miter saw having a beveling saw blade assembly including a saw blade, comprising:~~  
a base;  
a bevel support pivotally attached to the base, the bevel support being pivotable about a first substantially horizontal axis;  
a saw assembly pivotally attached to the bevel support, the saw assembly comprising a blade, a guard for covering a portion of the blade, and a handle connected to the guard, the saw assembly being pivotable about a second substantially horizontal axis between a first position adjacent to the base and a second position away from the base, the first and second axes being substantially perpendicular; and  
a front bevel lock mechanism disposed on the base, comprising a grippable portion rotatably attached to the base, the grippable portion having a cam surface, including:  
~~— a retaining portion, the retaining portion including a cam surface;~~

Serial No. 10/603,487

Amendment in Resp. to Off. Action of Dec. 15, 2005

UTILITY PATENT

B&amp;D No. JK01493

~~a bevel housing being configured for aiding in beveling of the beveling saw blade assembly;~~

a generally cylindrical shaft extending from the bevel housing to the grippable portion, the generally cylindrical shaft being constructed to rotate and tension/detension the generally cylindrical shaft by operation of the cam surface ~~included in the retaining portion~~, and

wherein tensioning of the shaft by engagement of the cam surface, ~~included in the retaining portion~~, results in the bevel housing being orientated in a fixed position, ~~to the bevel of the saw blade assembly~~

wherein the guard is substantially between the bevel support and the front bevel lock mechanism.

36. Canceled

37. Canceled

38. Canceled

39. Canceled

40. Canceled

41. Canceled

42. (Withdrawn) A miter saw having a moveable saw and a miter base, comprising:

Serial No. 10/603,487

Amendment in Resp. to Off. Action of Dec. 15, 2005

UTILITY PATENT

B&amp;D No. JK01493

a miter base having a front portion and a rear portion, the front portion generally opposing the rear portion;

a saw capable of attaining a plurality of bevels with respect to the miter base; and

a bevel indicator disposed on the front portion of the miter base, the bevel indicator indicating the bevel of the saw.

43. (Withdrawn) The miter saw as described in Claim 42, wherein the saw is attached to the miter base at the rear portion.

44. (Withdrawn) The miter saw as described in Claim 42, the bevel indicator including a rotary mechanism.

45. (Withdrawn) The miter saw as described in Claim 44, the rotary mechanism including a gear.

46. (Withdrawn) The miter saw as described in Claim 44, the rotary mechanism including a pulley.

47. (Withdrawn) The miter saw of Claim 42, the bevel indicator having an angular movement with respect to an angular movement of the bevel of the saw in a 1:1 ratio.

48. (Withdrawn) The miter saw of Claim 42, the bevel indicator having an angular movement with respect to an angular movement of the bevel of the saw less than a 1:1 ratio.

Serial No. 10/603,487

Amendment in Resp. to Off. Action of Dec. 15, 2005

UTILITY PATENT

B&amp;D No. JK01493

49. (Withdrawn) The miter saw of Claim 42, the bevel indicator having an angular movement with respect to an angular movement of the bevel of the saw greater than a 1:1 ratio.

50. (Previously presented) A miter saw having a moveable saw and a miter base, comprising:  
a miter base having a front portion and a rear portion, the front portion generally opposing the rear portion;

a saw capable of attaining a plurality of bevel angles with respect to the miter base;  
a bevel housing disposed generally between the saw and the miter base;  
a lock handle pivotally mounted on the front portion of the miter base, the lock handle having a cam surface; and  
a rotatable shaft coupled to the lock handle, the rotatable shaft being arranged to be movable towards the front portion of the miter base and towards the rear portion,  
wherein movement of the lock handle results in the rotatable shaft being moved towards the front portion of the miter base so as to lock the bevel housing against the miter base to fix the saw in a particular bevel angle included in the plurality of bevel angles.

Claims 51 through 54 Canceled

55. (Previously presented) The miter saw of Claim 50, further comprising a gear contained within the bevel housing, the gear being connected to the rotatable shaft such that rotation of the gear results in rotation of the shaft.

Serial No. 10/603,487

Amendment in Resp. to Off. Action of Dec. 15, 2005

UTILITY PATENT

B&amp;D No. JK01493

56. (Previously presented) The miter saw of Claim 50, further comprising a bushing mounted to the miter base adjacent the front portion, the bushing being arranged so as to retain the rotatable shaft while permitting rotation of the shaft.

57. (Previously presented) The miter saw of Claim 50, wherein the lock handle pivotally extends beyond the miter base when the bevel housing is not locked against the miter base.

58. (Previously presented) The miter saw of Claim 50, wherein the rotatable shaft is prevented from rotating when the bevel housing is locked against the miter base.